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April 1980

AGRISTARS CROPPING PRACTICES AND CROP CHARACTERISTICS BASED ON 1979 ESCS **OBSERVATIONS** 

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# AGRISTARS CROPPING PRACTICES AND CROP CHARACTERISTICS BASED ON 1979 ESCS OBSERVATIONS

PREPARED BY:

M. A. Wise and Dr. D. E. Pitts 553

EARTH OBSERVATIONS DIVISION

APRIL 1980

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	Cotton	Corn	South Carolina (A-94)
	Soybean	Soybean	Corn
	Arkansas (A-9)	Spring Wheat	Soybean
	Cotton	Mississippi (A-57)	Texas (A-99)
	Rice	Cotton	Cotton
	Soybean	Soybean	Rice
	California (A-16)	Missouri (A-62)	Sorghum
	Cotton	Corn	Soybean
	Rice	Soybean	
	Georgia (A-21)	Nebraska (A-67)	
	Corn	Corn	
	Soybean	Sorghum	
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	Cotton	Soybean	
	Rice		

Soybean

## B. Seeding Rate and Row Width Histograms

Alabama (B-2)Minnesota (B-48) Texas (B-99) Corn Barley Cotton Cotton Corn Rice Soybean Soybean Sorghum Spring Wheat Arkansas (B-9)Soybean Mississippi (B-57) Cotton Rice Cotton Soybean Soybean Nebraska (B-67) California (B-16) Cotton Corn Rice Sorghum Georgia (B-21) Soybean North Carolina (B-74) Corn Corn Soybean Illinois (B-26) Soybean North Dakota (B-79) Corn Barley Soybean Indiana (B-31) Durum Wheat Spring Wheat Corn Ohio (B-86) Soybean (R-36)Corn lowa Corn Soybean Pennsylvania (B-91) Soybean Corn Louisiana (B-41)South Carolina (B-94) Cotton Rice Corn

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## C. Plant Height Plots

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### D. Percent Ground Cover Plots

Soybean

Alabama (D-2) Missouri (D-37) Corn Corn Cotton Soybean Soybean Nebraska (D-40) Arkansas (D-6) Corn Cotton Sorghum Rice Soybean Soybean North Carolina (D-44) California (D-10) Corn Cotton Soybean Rice North Dakota (D-47) Georgia (D-13) Barley Corn Durum Wheat Soybean Spring Wheat Indiana (D-19) Ohio (D-51) Corn Corn Soybean Soybean Iowa (D-22) Pennsylvania (D-54) Corn Corn Soybean South Carolina (D-56) Louisiana (D-25) Corn Cotton Soybean Rice **Texas** (D-59) Minnesota (D-29) Corn Barley Rice Corn Sorghum Soytaan Soybean Spring Wheat Mississippi (D-34) Cotton

### E. Crop Growth Stage Plots

Soybean

Alabama (E-2) Nebraska (E-40) Corn Corn Cotton Sorghum Soybean Soybean Arkansas (E-6) North Carolina (E-44) Cotton Corn Rice Soybean North Dakota (E-47) Soybean California (E-10) Barley Cotton Durum Wheat Rice Spring Wheat Georgia (E-13) Ohio (E-51) Corn Corn Soybean Soybean Illinois (E-16) Pennsylvania (E-54) Corn Corn Soybean South Carolina (E-56) Indiana (E-19) Corn Corn Soybean Texas (E-59) Soybean Iowa (E-22) Cotton Corn Rice Soybean Sorghum Louisiana (E-25)Soybean Cotton Rice Soybean Minnesota (E-29) Barley Corn Soybean F. Program Listing Spring Wheat Mississippi (E-34) Cotton

#### 1. INTRODUCTION

Analysis of research data, Bauer et al. (1979), collected at the Purdue Agronomy Farm and at the super sites have shown that crop reflectance (e.g. greeness) profile of crop canopies is significantly affected by the planting date, emergence date, biomass, percent soil cover, and maturity stage. An experiment at the Purdue Agronomy Farm using 81 soybean plots with three row spacings (15, 46, and 91 cm) showed that row width caused significant differences in both the red and near infrared reflectance until 100 percent ground cover was reached by the wider rows. In addition, it was also noted by Rice et al. (1980) that plant height affected the peak values of the reflectance greeness and that reflectance in the red and near infrared bands correlated with the percent ground cover.

Results of experiments performed by Bauer et al. (1978) on spring wheat at the Williston, North Dakota Agriculture Experiment Station during the summer of 1977 have shown that the planting date is the primary factor affecting spectral response from the early stages of plant development to the flowering stage of maturity. During the flowering to ripening stages, the soil moisture level becomes the primary factor influencing spectral response. Although planting date is the dominant influencing factor at the beginning of the growth cycle and soil moisture dominates at the end, small variations in spectral response during a particular growth stage can be attributed to percent soil cover, leaf area index, and biomass.

During the 1979 crop year, 160 segments had ground truth inventories and periodic observation data collected for the AgRISTARS project by  $ESCS^{J}$ . These data were collected and recorded in four categories (cards): initial interview of the farm operator (A cards), periodic observations of the fields (B cards), final interview of the farm operator (C cards), and general comments (D cards). For this project, a subset of 143 segments in 18 states were examined to obtain an overview of farming practices and growth aspects of

<sup>&</sup>lt;sup>1</sup>Economics, Statistics and Cooperative Service, U.S. Department of Agriculture. <sup>2</sup>Enumerator's Manual, 1979 Ground Data Survey.

individual crops in specific states. Plots were made for planting date, emergence date, seeding rate, row width, plant height, ground cover, and growth stage. The main crops being studied were barley, corn, cotton, durum wheat, rice, sorghum, soybeans, and spring wheat. This information was compiled so that the AgRISTARS analyst can better understand different agronomic practices an a function of crop and state.

The planting date, emergence date, seeding rate, and row width information has been plotted in histograms and may be found in appendices A and B. Using these histograms it is possible for the analyst to develop a better understanding of the crop development cycles and their variability within a state. For example, soybean fields which have very narrow row widths (8 inches) will exhibit higher reflectance at the same cropstage than will more usual (32 inch) widths utilized in the corn belt (Figure A). The plant height, percent ground cover, and crop growth stage information are displayed as a function of the day of the year in the plots found in appendices C, D, and E. These plots may be used in the same manner as the histograms, and the crop growth stage plot may prove especially useful in conjunction with other information presented.

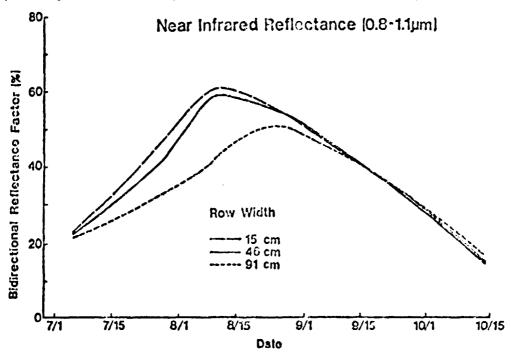


Figure A.- Effect of row width on soybean canopy reflectance as a function of measurement date.

#### 2. RESULTS

Summary plots of planting date and row width for corn and soybeans were compiled for groups of states so that general cropping practices can easily be distinguished and detailed studies of their spectral implications can commence.

#### 2.1 SOYBEANS

Planting date histograms for soybeans in Georgia, South Carolina, and North Carolina (figure 1) and for Iowa, Illinois, and Indiana (figure 2) appear somewhat normally distributed whereas the histograms for Mississippi, Louisiana, Texas, and Arkansas (figure 3) appears to be bimodal. The cause is not known at this time, but is suspected to be due to meteorological events. Further investigation will take place when the 1979 weather vector data base is prepared for these segments. The row width for the Southeast U.S. (figure 4) has a mode near 37 inches, whereas the corn belt (figure 5) has about an equal amount at 37 and 30 inches and about 5 percent drilled at 9 inches and a few broadcast. The gulf coast (figure 6) shows about 23 percent with 7 inch and more narrow rows. These differences will undoubtedly affect signature responses of individual soybean fields.

## 2.2 **CORN**

Corn in the Southeast U.S. (figure 7) has a wide distribution of planting dates (day 075 to 104) whereas the corn belt has a much more narrow distribution (figure 8). Row widths of 37 inches are predominant in the Southeast U.S. (figure 9) and are at 30 inches and 38 inches in the corn belt (figure 10). This will make the early spectral development different between these regional areas.

#### 2.3 SMALL GRAINS

In the Northern Great Plains the planting date for barley appears to be bimodal (figure 11). The first mode is coincident with spring wheat at day 142 (figure 12) whereas the second mode is coincident with durum wheat at

day 158 (figure 13). This may cause some confusion between barley and the other two crops early in the season, but could allow some discrimination between spring wheat and durum wheat if this planting date sequence is normally followed by the farmers.

In table 1, the results of an ESCS study of row spacings for soybeans for 1977, 1978, and 1979 are presented, and the results of this study for the corresponding states for 1979 are presented in table 2. In general, the results from this study follow the trends of the ESCS results. This report includes soybean row width information for several important AgRISTARS regions (e.g. Georgia, North Carolina, and Louisiana) not included in the ESCS study. The ESCS field sampling included more fields and the fields were more independent whereas in this project a fewer number of fields had data collected and these fields were concentrated in a few segment areas thus causing more potential sample error. The ESCS data shows from 1977 to 1979 that the trend is toward narrower row widths, yet there is not a drastic change.

#### 3. ACKNOWLEDGEMENTS

The authors wish to thank  $Dr.\ Gautum\ Bahwar$  for the assistance given in the use of the fortran plotting routines which he authored.

TABLE 1

MEASURED ROW SPACING OF SOYBEANS: PERCENTAGES DISTRIBUTION AND AVERAGE WE H FOR SELECTED STATES, 1977-79 1/

	TATE	NUMBER		ROH W	IDTH GPOUPS (	INCHES)		AVERACE
	AND	OF	10,0 &	: 10.1-	: 18.6-	: 78.6-	: 34.6 &	WIDTH 2/
	EAR	SAMPLES	LESS 2/	: 18.5	: 28.5	: 34.5	: GREATER	(1hches)
Ark	1977 : 1978 : 1979 :	150 143 139	5.3 4.3 12.9	1.0	PERCENT OF PL .3 1.0 .7	23.3 21.3 23.7	70.1 73.1 62.7	35.5 36.3 36.1
ILL	1977 :	163	2.5	1.5	5.2	44.2	46.6	32.9
	1978 :	166	2.4	.6	4.5	44.9	47.6	33.5
	1979 :	164	5.2	1.2	5.5	48.5	39.6	31.7
IND	1977 :	108	1.9	3.7	6.9	46.3	41.2	32.7
	1978 :	112	5.4	2.2	5.8	42.0	44.6	32.4
	1979 :	105	3.3	.5	6.7	47.6	41.9	32.8
IOWA	1977 :	155	1.0	2.5	2.3	34.2	67.0	34.7
	1978 :	141	.7	1.1	7.8	41.1	49.3	32.5
	1979 :	145	.7	.7	4.?	42.6	51.8	34.1
MIRN	1977 :	93	.5	2.7	3.8	42.5	50.5	33.4
	1978 :	86	4.1	2.3	6.4	47.1	40.1	32.5
	1979 :	89	7.9	1.7	7.9	47.1	35.4	31.3
MISS	1977 :	124	12.1	0	2.4	8.5	77.0	37.3
	1978 :	121	14.5	.6	0	11.2	73.5	37.1
	1979 :	124	10.1	2.8	4.0	19.8	63.3	35.4
MO	•1977 :	139	2.9	.7	2.2	38.5	55.7	34.5
	1978 :	134	3.8	.7	3.0	45.1	47.4	33.6
	1979 :	138	5.1	1.8	3.6	43.1	46.4	32.5
0110	1977 :	103	22.3	10.2	7.8	30.8	20.9	26.6
	1978 :	104	22.6	7.7	8.7	41.3	19.7	26.1
	1979 :	114	28.1	14.0	1.8	37.7	18.4	23.6

<sup>1/</sup> BASED ON ROW INASTREMENTS IN FLATS SELECTED FOR LOCKTIVE VALUE SAMPLES. 1977 AND 1978 RESERVED AND LESS BUT EXCLUDED IN COMMUTATION OF AVERAGE WICHT.

CROP PRODUCTION, NOVEMBER 1979

B-16

CROP REPORTING BOOKER, ESCS. USES

TABLE 2

	_						
		SOYBEAN ROW	WIDTH - 1		WIDTHS (IN	(CHES)	-
STATE	NUMBER OF SAMPLES		10.0 & LESS	10.1- 18.5	18.6- 28.5	28.6- 34.5	35.6 & GREATER
ARKANSAS	95		2.5	0.0	0.0	49.5	48.0
ILLINOIS	75		6.5	1.5	0.0	38.5	53.5
INDIANA	120		9.0	0.5	2.0	59.0	29.0
IOWA	150	ı	4.0	3.0	40.0	0.0	55.0
MINNESOTA	15		0.0	33.0	0.0	60.0	7.0
MISSISSIPPI	71		8.0	1.0	1.0	56.0	33.0
OHIO	74		51.0	12.0	5.0	26.0	5.0

#### DISCUSSION OF APPENDICES

At the beginning of each histogram the topic being displayed such as planting date is printed. The crop type is listed next (a definition of crop codes is located in table 2). A list of segments containing the crop of interest for the particular state follows. The rest of the information directly concerns the histograms. The step size is the range of data values which are combined into each of the ten groups. The centerpoint value is printed to the left of each of the ten bands, and the range extends one half of a step size on either side of it. The centerpoint values are displayed in exponential notation. For example, 1.293E+02 is  $1.293\times10^2$  or 129.3. Also, the number of observations listed is the total number of fields for which data are being histogrammed. Along the first and last lines of the histogram, the percentages are listed. The length of a bar can thus be read as a percentage of fields in the given range. Finally, the last two lines list the centerpoint of each group followed by the actual number of fields which are in that group. It should also be noted that the histograms are not comulative.

The three plots in appendices C, D, and E show plant height, percent ground cover, and crop growth stage respectively as a function of the day of the year. The day of the year is plotted along the x-axis and is divided by one hundred. The plant height is given in inches, the ground cover in percentage, and crop growth stage is on a scale of 1 to 7 with 1 signifying that the crop has been planted and 7 meaning that it is harvested. The plots give the number of fields which are at a certain growth value on a given day of the year. These numbers must be single digit numerals. Therefore, alphabetic characters and symbols are assigned to numbers greater than 9 (see table 4). Also, there are exactly ten columns between each of the values along the x-axis, and the total number of points received for plotting is printed in the upper left-hand corner under MPOINT.

# TABLE 3

# CROP CODES

CODE	CROP TYPE
BR	BARLEY
CR	CORN
СТ	COTTON
DW	DURUM WHEAT
RI	RICE
SR	SORGHUM
so	SOYBEAN
SW	SPRING WHEAT

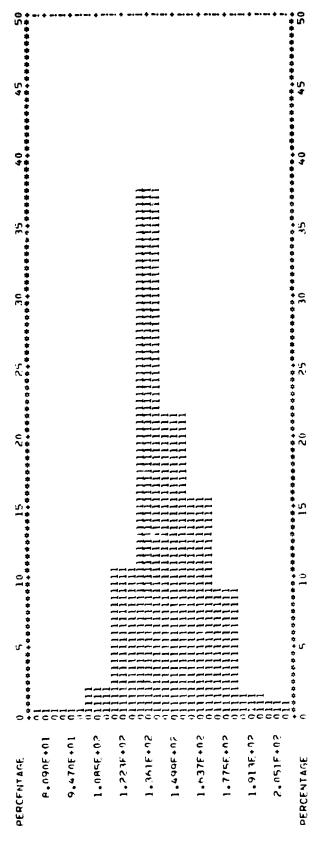
TABLE 4
SYMBOL CODING FOR PLOTS

SYMBOL		NUMERICAL VALUE
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
0		10
Α		11
В		12
C		13
D		14
E		15
F		16
G		17
Н		18
I		19
J		20
K		21
L		22
M		23
N		24
0		25
Р		26
Q		27
R		28
S		29
Т		30
U		31
V		32
W		33
X		34
Y		35
Z		36
+	9	37 or greater

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CONTENT

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APPENDIX A

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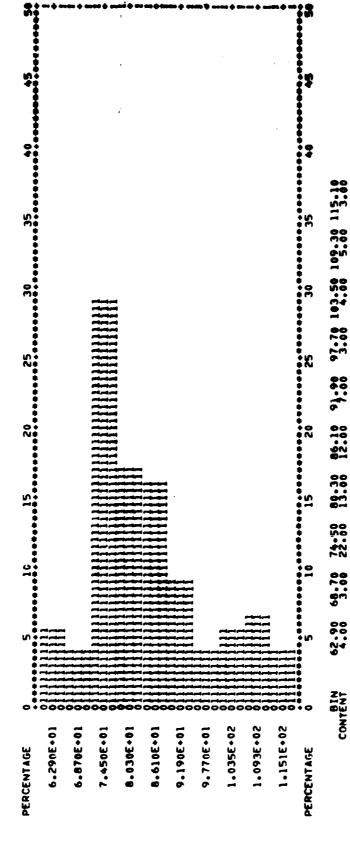
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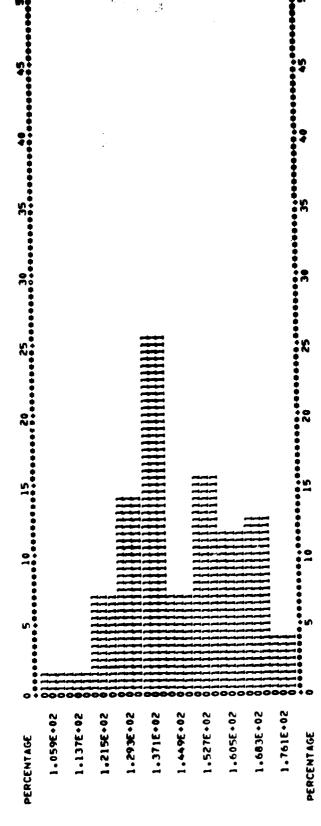
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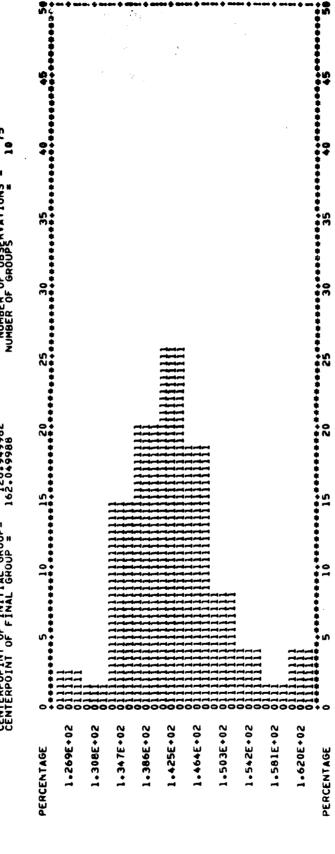
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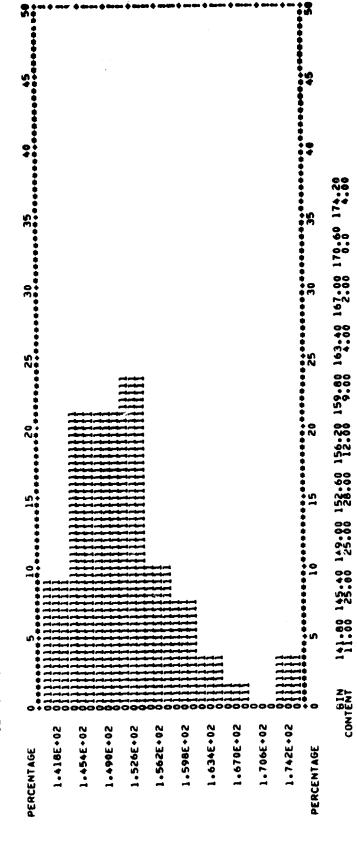
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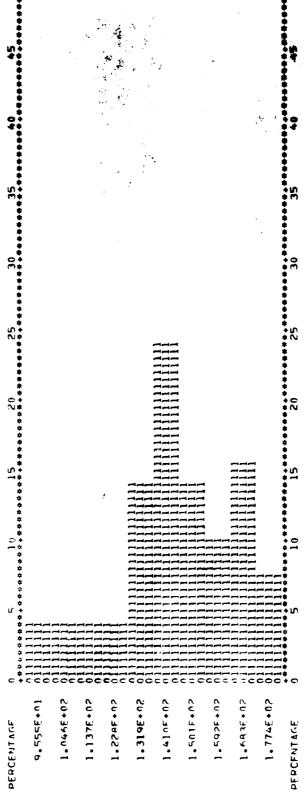
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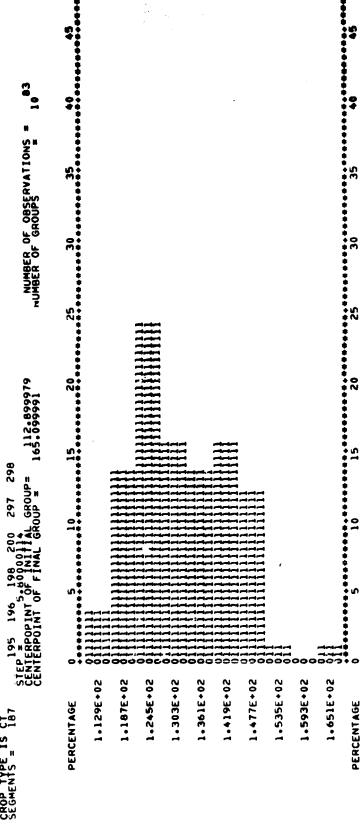
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<del>,</del>	PERCENTAGE	1.3816+02	1.4235+02	1.465E+02	1.5(7E+02	1.5496+02	1.5916+02	1.6335+02	1.6756+02	1.7175+02	1.7596+43	PERCENTAGE

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STEP = 16,0000000 CENTEDUCIOT OF INITIAL GROUP= 22,9999447 CENTEDUCIOT OF FINAL GROUP = 167,000000

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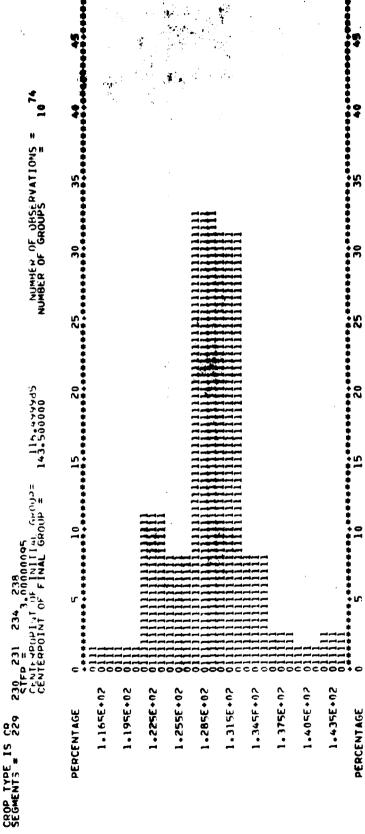
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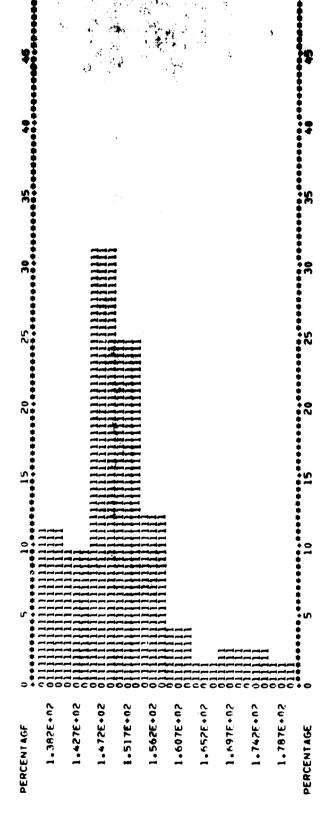
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122.85 126.55 138.25 133.95 131.65 141.35 145.65 146.75 152.45 156.15 156.15 NUMBER OF GOSERVATIONS = 156.149994 320 322 STEP 37000172 CENTERPOINT OF INAL GROUP = CONTENT 1.4875+02 1.5246+02 1.5616+02 1.376€-02 1.2285.02 1.2658.02 1.3926-02 1.4136+02 1.450€+12 1.3396.02 PERCENTAGE PERCENTAGE CROP TYPE IS CR SEGMENTS = 319 PLANTING DATE

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320 322 STEP = 4.00000095 CENTERPOINT OF INITIAL GROUP = 129.999985 CENTERPOINT OF FINAL GROUP = 166.000000

NUMBER OF OBSERVATIONS = 45

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PLANTING DATE

CROP TYPE IS CR SEGMENTS = 336

NUMBER OF OBSERVATIONS = NUMBER OF GROUPS 69.5449775 337 338 339 \$10000229 \$7FP = CENTERPOINT OF FINAL GROUP = CENTERPOINT OF FINAL GROUP = 1.001E+02 1.052E+02 8.995E+01 1.103E+02 1.154E+02 6.955E+01 7.465E+01 8.485E+01 9.505E+01 7.975E+01 PEPCENTAGE

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69.55 74.65 79.75 84.85 89.95 95.05 109.15 105.25 110.35 115.45 1.60 3.00 11.00 10.00 4.00 3.00 5.00 3.00 3.00 0.0 3.30 CONTENT

PERCENTAGE

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99.05 103.95 108.85 113.75 118.65 123.55 4.00 3.00 5.00 3.00 1.00 2.00 NUMBER OF GROUPS = 73,4494817 84.35 89.25 3.00 19.00 337 338 339 476P = 4.90000057 CENTERPOINT OF FINAL GROUP = 19.45 CONTENT 1.235E+n2 1.08AF+02 1.186E+02 7.9456+01 8.435E+01 8.925E+01 9.4156+01 9.905E+01 1.0396+02 1.1376+02 PERCENTAGE PERCENTAGE CROP TYPE IS CR SEGMENTS = 334

EMERGENCE DATE

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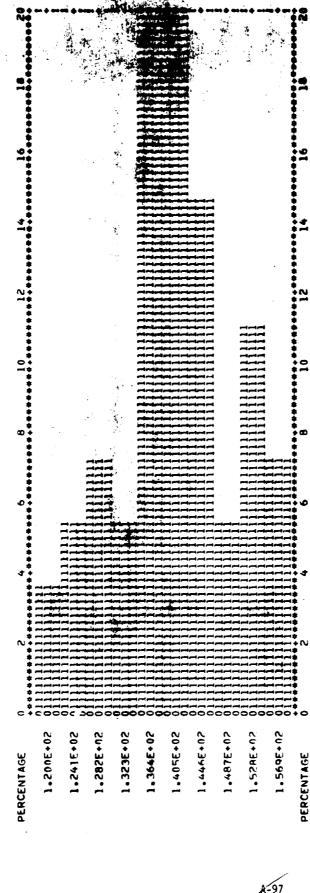
PLANTING DATE

CROP TYPE IS SO SEGMENTS = 336

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337 338 339 4 10000229 51FP = 4.10000229 CENTERPOINT OF INITIAL GROUP = CENTERPOINT OF FINAL GROUP =

NUMBER OF GROUPS



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127.70 133.10 138.50 143.90 149.30 154.70 160.10 165.50 179.90 176.30 5.00 3.00 13.00 15.00

CONTENT

TEXAS

A-99 /32

101 NUMBER OF OBSERVATIONS = NUMBER OF GROUPS 92.30 104.10 115.90 127.70 139.50 151.30 163.10 2.00 0.0 4.00 18.00 12.00 7.00 11.00 1377 290 292 56.8999786 80.50 583 58<del>4</del> 21.00 56.90 STEP = 11 8 CENTERPOINT OF 1 BIN 9.23nE+01 1.1596+02 1.277E+02 1.395E+02 1.5136+02 5.690E+01 6.870E+01 8.050E+01 1.041E+02 1.631E+02 PERCENTAGE PERCENTAGE CROP TYPE IS CT SEGMENTS = PLANTING DATE

A-100 123 ORIGINAL PAGE IS OF POOR QUALITY

CROP TYPE IS CT SEGMENTS =

1377 290 292 67.8499756 173.149994 CENTERPOINT OF FINAL GROUP =

NUMBER OF OBSERVATIONS = NUMBER OF GROUPS

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67.85 79.55 91.25 102.95 114.65 126.35 138.05 149.75 161.45 173.15 24.00 19.00 11.00 7.00 11.00 CONTENT

PLANTING DATE

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A-102 /25 76.55 85.65 94.75 103.85 112.95 122.05 131.15 140.25 149.35 158.45 10.00 26.00 6.00 29.00 12.00 14.00 2.00 4.00 2.00

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	J GE	4.620E+01	5.660E+01	6.70nE+01	7.740E+0]	8.780E+01	9.820€+01	1.086E+02	1.1905.02	1.2946-02	1.39AE+02	NGE	Ü
CROP TYPE IS SR SEGMENTS = 275	PERCENTAGE	4.62	2.66	6.70	7.74	8.76	58°÷	1.06	1.19	1.29	1.39	PERCENTAGE	
CROP											/:		

A-104

CROP TYPE SEGMENTS =

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OP TYPE IS SR GMENTS = 275	PERCENTAGE	5.430E+01	6.4906.01	7.5506+01	8.510E+01	9.6705+01	1.0735-02	1.1796+02	1.2855+02	1.3916.02	1.497E+02	PERCENTAGE

A=105 1.25

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CROP TYPE IS SO	PERCENTAGE	1.340€+02	1.3816+02	1.4275+02	1.463E+02	1.504E+02	1.545E+02	1.58AE+02	1.627E+02	1.66AE+02	1.7096+02	PERCENTAGE	
CROP SEGM											A 104	·	

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PERCENTAGE	1.4296.02	1.4648.02	1.500E+02	1.5346+02	1.5726.02	1.60AE+02	1.6445.02	1.680E+02	1.7146+02	1.7526.02	

A-164 (3 C 142.80 145.40 150.00 153.60 157.20 160.80 164.40 168.00 171.60 175.20

91N CONTENT APPENJIX B

SPEEDING RATE AND ROW NIDTH HISTOGRAMS

B-2 /32

SEEDING HATE - LH/ACHE

	NUMBER OF GROUPS = 16
	15.1499987 17.8499908
CROP TYPE IS CH SEGMENTS = 288 STEP = 0.20000013	CENTERFULNT OF INITIAL GROUP =

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PERCENTAGE	1.515E+01	1.545€+01	1.575c+01	1.6052+01	1.6356+01	1.6655+01	1.6958.01	1.7255+01	1.7555.01	1.7852+01	PERCENTAGE	NO.

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CROP TYPE IS CR SEIMENTS = 288 308 SE	PERCENTAGE	2.650c+01	2.750±+01	2.850E+01	2.950E+01	3.050c+01	3.150t +01	3.250€+01	3+3505+01	3.450E+01	3.55Uc+01	PERCENTAGE	MOO
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SFEDING RATE - LAZACHE

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	PERCENTAGE	1.5°	1.6	1.8	1.9	2.0	2•2	2.3	2.4	7.4	2.7	PERCENTAGE	

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SEEDING RATE - LUZACHE

CROP TYPE IS 513 503 SEGMENTS = 238 503

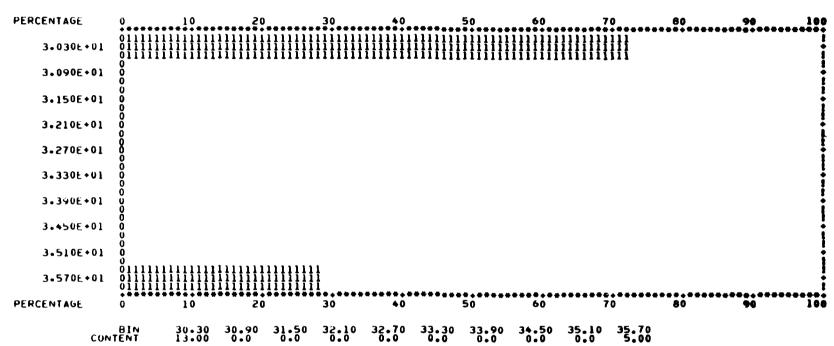
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NUMBER OF OBSERVATIONS = 18 NUMBER OF GROUPS = 10	35											35	58.75
OBSERVA OUPS												. ,	38.75 41.25 43.75 46.25 48.75 51.25 53.75 56.25 58.75 1.00 0.0 0.0 0.0 3.00
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OF POOR COACHY

CROP TYPE IS SO
SEGMENTS = 288 308
STEP = U.00000271
CENTERPOPINT OF INITIAL GROUP=
CENTERPOINT OF FINAL GROUP = NUMBER OF OBSERVATIONS = 10 30.2999725 35.6999969



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SEEDING PATE - 1 3/ACRE

	NUMBER OF OBSERVATIONS = 15
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PEHCFNTAGE	S. 5	75.5	2.62	2.67	2.72	2.17	, ,	7×. C	5.5	70.5	DEPCFNTAGE

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SEEDING RATE - LU/ACHE

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SEEUING RATE - LUZACHE

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SEEDING RATE - LUZACRE

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PERCENTAGE

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SEEDING RATE - LB/ACKE

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B-36 /66

SEEDING RATE - LR/ACRE

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8-37

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SEEDING RATE - 1 B/ACRE

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SEEDING RATE - LUZACHE

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SEEDING RATE - LAZACRE

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SEEDING RATE - I RZACHE

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SEEDING RATE - 1 B/ACRE

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B-53 187

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OHIO

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SEEDING RATE - I BLACKE

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ROW WIDTH - INCHES

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SEEDING RATE - I BYACHE

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B-89

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**PENNSYLVANIA** 

B-91 22/

SEEDING RATE - LB/ACRE

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CROP TYPE IS CR SEGMENTS = 319	

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SOUTH CAROLINA

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ROW WIDTH - INCHES

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CROP TYPE IS CR	PERCENTAGE	3.6201.01	3.660 6.01	3.700E+01	3.7406+01	3.78nE.01	3.820F+01	3. R6NE+01

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3.900F+01 3. REAF+01

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PERCFUTAGE

SEEDING RATE - LBZACRE

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CROP TYPE IS SO SEGMENTS = 334	PEPCFNTARE	ė	ě	3.	;	;	,	,	.5	v		PERCENTAGE	
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TEXAS

B-99 229

SEEDING RATE - LB/ACRE

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SERVA	***												29.15
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	GE	1.395E+01	1.585E+01	1.775E+01	1.965E+01	2.155E+01	2.345E+01	2.535E+01	2.725E+01	2.915E+01	3.105E+01	بي	
5	NTA	• 39	.58	11.	96.	.15	.34	.53	.72	.91	.10	NTA	
CROP TYPE IS CT SEGMENTS =	PERCENTAGE	-	-	-	-	2	2	2	2	2	3	PERCENTAGE	

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TYPE ENTS =
CROP SEGME

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10	80											80	
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APPENDIX C PLANT HEIGHT GRAPHS

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APPENDIX D GROUND COVER GRAPHS

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CROP GROWTH STAGE GRAPHS

APPENDIX E

ET 364

ALABAMA

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**PENNSYL VANIA** 

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	79PERIODIC 3.25 5 B B E	0 0 3 3 •E8 I							
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E-81 434

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E-62 425

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APPENDIX F

COMPUTER PROGRAM LISTING

F-1 427

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DIMENSION XX(37009), YY(3700), DIMENSION XX(3000), CAPSTS(3000), NIMENSION WONTH(3000), TDAY (37000), 2Z(3000), XZ(3000), CAPSTS(3000), NIMENSION WONTH(3000), TDAY (37000), ZZ(3000), XZ(3000), CAPSTS(3000), NIMENSION WONTH(3000), TDAY (37000), TTTLE (37), TT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 (7.2.eND=44) LO(1).NSEG.WONTH(I).IDAY(I).IFLD.NCRP(I).NCRP(Z)

[DUM(JH).JH=1,14).(MEL(IL).IL = 1,4)

NA 14,14,8X*2[Z*2X*1Z*1X*Z4].IX*9II*1X*5II*8AI)

NS G. GT. ISEG(NSAM) GO TO 44

1 S. G. IX=1.NSAM

1 ISEG(IX).ED*NSEG) GO TO 751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           530
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UU

IF (174 E0. KKS) GO TO 4

IF (COVER(I) 67 = 10.0) WRITE (6.666) NSEG

IF (COVER(I) 67 = 10.0) COVER(I) = COVER(I) 6.0 0.5

IF (CRPSTG (I) 66 = 10.0) WRITE (6.667) NSEG

FORMAT (1H 30 X = 156 MRT = 14.0 MRS CROP STAGE .GF. 10.0)

FORMAT (1H 30 X = 156 MRT = 14.0 MRS CROP STAGE .GF. 10.0)

FORMAT (1H 10.0 MRT = 10.0 MRT = 14.0 MRT = 10.0 MRT SEGMENT TPICT7 (XX.YY.INFO.NNN.XCENT.YCENT.3.0.3.0.55,100.1.1.2. COMMENT: NOPMALIZATION OF PLANT HEIGHT AND GROUND COVER BY COMMENT: NOPMALIZATION OF PLANT HEIGHT AND GROUND COVER BY COMMENT OF A TIME WITH THE PRESENT PROGRAM.

IF (NPROC.EQ.9999.AND.PLTD(FIELD(I)).GT.0) XX(I)=XX(I) COMMENT (NPROC.EQ.9999.AND.EMRGD(FIELD(I)).GT.0) XX(I)=XX(I) COMMENT (NPROC.EQ.9999.AND.EMRGD(FIELD(I)).GT.0) XX(I)=XX(I) COMMENT: IF ALL FIFLDS ARE TO BE PLOTTED UPON TAPE READ. FINUE (MONTH(I) .LT. 1 .OR. IDAY(I) .LT. 1) GO TO PLNTZ(I) = 10\*IDUM(2) \*IDUM(3) \*100\*IDUM(1)
PLNTZ(I) = PLNTZ(I) \* 1.06=04
COVER(I) = 10\*IDUM(5) \* 50 TO 4
COVER(I) = 10\*IDUM(5) \* 70 UM(6)
CRPSTG(I) = FLOAT(IDUM(5) \* 70 UM(6)
CONTINUE TELO(I) = 15\*IDUM(5) \* 70 UM(6) EMRGD(IFLD)=LLDUM

IF (SEEDRT(IFLD) = 1.7

IF (IWD) = 0.2

JOK=JOK\*) = 1.7

ZZ (JOK) = 1.7

ZZ (NPROC. EQ. 9999) XX(N+1) =0.0 (NPROC. EQ. 9999) XX(N+2) =1.5 DO 20 I=1.N XX(I)=IDOY(MONTH(I).IDAY(I)) 146 F 533 447 2000 77 C9173 531 532

CO

PURDUE/LARS 3031

FORTRAN

FILE: WEIRD

T (1H .5x.\*A = '.3(1PF15.3.2X)./.5x.\*SIGMAA = '.3(F9.3.2X)./.
HISOP = '.1PE15.6)
T (6.41) (1.xZ(1).YF1Z(1).ZZ(1).I = 1.MNN)
T (5x.\*1] = '.1Z(1).XZ(1).XZ(1).ZZ(1).I = 1.MNN) YY (N+2)=7 CALL TDICT7(XX+YY+INF0+NNN+XCENI+YCFNI+3+0+3+0+55+100+1+1+2+ALA9E) TY(N+1) =-1.0 CALL TPICT (XX.YY.INFO.NNN.XCENT.YCENT.3.0.3.0.55.100.1.1.2. C DO 650 I = 1.MNN C S7 (1) = 1.MNN C650 CONTINUE CUPFIT (XZ.ZZ.DUMMY.MNN.3.0.A.DUCK.SIGMAA.FLAMDA.YFIT. .0P. (XX(IFL) .LT. 0.01)) GO TO 645 IF (LA .6F. 10) GO TO 603 CAL CHPFIT(X7.2Z.DUMY.MNN.3.0.A.DUCK.SIGWAA.FLAMDA.YFIT. ACHISOR) XCHI - CUTEAA THE ITERATION LIMIT MAY NEED TO BE ADJUSTED DEPENDING ON THE SET OF DATA USED. FOD THE SIVEN SET OF DATA ONLY 100 ITEMATIONS AMENDESSARY FOR CONVENGENCE. THE LIMIT MAY NEED TO BE CHANGED FOR A DIFFERENT SET OF DATA VALUES. (K.10) (A(1).1 = 1.3).(SIGMAA(1).1 = 1.3). PURDUE/LARS 3031 XCHI - CHISOR 3 - E - 04) - CHISOR (Knif) - LE. XTH) GO TO 603 XCHI - CHISOR (3. F-04) \* CHISOR S(KNIF) \*LE. XTH) 60 TO 601 CHISOR =LVR(2) 645 IFL = 1.N ((YY(IFL) .LT. 1.0) N = MNN | Y (IFL) (MNN) = YY(IFL) FORTON A AMDA = 1.E-03 602 LA = LA + 1 FILE: WFIPD F V 7 009 COMMENT COMMENT: 079 S H 603 5 30 7

SUBBOUTINF GNUEAD (KLQ.T],NSAM.ISEG)
OTHERSTON ISEG(160).IY(11)
EQUIVALENCE (KLQ.X(1)).IY(11)
EQUIVALENCE (KLQ.X(1)).IY(11)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).J1(2).K1(2)
LOGICAL. A(40).T1.X(2).T1.X(2).T1.X(2).T1
K12).T1
K12).T1 NSEG GT. MAX) GO TO 66 KLO. EO. NLO) GO TO 88R JEJNUE INUE INUE #02 K=1.4 802 K=1.1 1) =4(K+1) 1) =74(KK) 1) =76(KK) TINUE END FINCTION IDDY (MONTH, IDAY) IF (MONTH, GF. 3) GO TO 3 IDOY-MONTH+31-31+IDAY RFIURN 3 IDOY-MHS (MONTH+30, 6-32, 3+IDAY) END 0 5 K=1 NSAM F (156 KK) 67 NAM NAX=1SEG (K) R 12 (16.7) NSAM NAX

966

FORTOAN A PURRIF/LAMS 3031

FILE: WFIRD

80S

888 55

| Supportive Hist | Fortam | Digital | Digital

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F8 432

I SWMHIISYWBLZ.ONF.ZEMO.STAR.PLUS.AXIS I A(101).BLANK NK /' '/AXIS/'!'/.PLUS/'.'/.STAR/'-'/.ZERO/'0'/. (NT.23) (I.I = KVT.KV.KVT) (23x,1)(IH.9H000000000),1H./8X,10HPERCENTAGE. VE GDOP1 (X.N.NG.XMIN.XMAX.F .IND)
V V(1).F(1)
F(0) 1) GO TO 2 . 1) .09. (J .6T. 101)) GO TO SUBROUTINF PLOT3 (IND.IS.X.F.N.NT) DIMENSION F(1) INTEGFR-2 H.R.RWR -LWP) . (RWR.KWR) AXIS FG. 0) A(101) = PLUS 0. 1) GO TO 2 DUM FLOAT (NG) PITE (NT.25) X.A ORMAT (1)X.1PE10.3.2X.101A1) ETURN 0. 0) A(1) = PLUS 2.N 2. Z X (1) .61. ZX) Z = X(1) 4E. RWR1 GO TO 9 F (INT FO 0) 60 TO 10 10 INTEL (NT 101) A 10 INTEL (NT 101) A 10 INTEL (NT 101 A 1) ETURN ... ... 237 241 234 10 2 2 2

PURDUE /LARS 3031

FORTPAN A

FILE: HISI

1433

FILE: HISI FORTRAN A PURDUE/LARS 3031

ZMAX = X(1) - DUM/2.0

ZMAN = X(1) - DUM/2.0

E (1) = 1.0

E (1) = 0.0

E (1) =

00000000000000000000000000000000000000
222222222222222222222222222222222222222
ANDOMINATION AND SOURCE OF

FILE: TPICT7 FORTRAN A PURDUE/LAPS 3031

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| 900 | CONTINUE | 00 | CALABEL (K) | KE | 1-4 | MODINI XMEAN | WEAR | 190 | FORBATION | 190 | FORBATI
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FORTRAN A PURDIJE /LARS 3031

FILE: TPICT?

OF POOR QUALITY

PUPPUEZLANS 3031 FORTRAN A FILE: TPICTS

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C FUERIVIE A. DELTAANTERMS. DERIV)

C FUERIVIER A. DELTAANTERMS. DERIV)

C MATHUM CARRAY. NOTE S. NOTE . NO
SUBBOUTINE CURFIT (x,y,SIGMAY,NPTS.NTERMS,MODE,A,DELTAA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1(J-K) = 0.

1(J-K) = 0.

1 | NP = 1.

1 | N = 1.

1 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MAKE A LEAST-SQUARE FIT TO A NON-LINEAR FUNCTION X-ARRAY OF DEPENDENT YOR THE START OF DEPENDENT YOR DEPENDENT YOR DEPENDENT YOR WEIGHTING MODE = 1 WEIGHT(I) = 1. / Y(I) WODE = 1. = 1. / Y(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMENT: THIS PROGRAM NOPWALIZES THE DATA FOR THE PROGRAMMER.
THIS FEATURE IS A MODIFICATION TO THE ORIGINAL
C BANHWAR PROGRAM.
                                                                                                                                                                                                                                                                                                                          K) = ALPHA (J+K) +WEIGHT (I) *DERIV (J) *DERIV (K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EVALUTE CHI SOUAPE AT STARTING POINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EVALUTE ALPHA AND RETA MATRICES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60 TO 30
WEIGHT(I)=1./SIGMAY(I) **2.
CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DO 34 J=1.NTERMS
DO 34 K=1.0
DO 46 J=1.NTERMS
DO 46 K=1.0
DO 53 K=1.0
DO 55 K=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    []=1./(-Y(])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DO 30 I=1.NPTS
IF (MODE) 25.27.23
IF (1) 12.55.77.23
IF (1) 12.27.72
GO TO 30
MEGHT (1) =1.7(-7
FIGHT (1) =1.7(-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EVALUTE WFIGHTS
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1 1 00 828 8 7 88000E

\$55 F0005

IF (MODE) 22.7.29
IF (VI) 25.27.23
WEIGHT=1./Y(I)
GO TO 3N
WEIGHT=1./(-Y(I))
GO TO 3N
WEIGHT=1./(-Y(I))
GO TO 3N
WEIGHT=1./(-Y(I))
GO TO 3N
WEIGHT=1./(-Y(I))) \*\*?
CHISO=0.06(CHISO)
IF (ARSIZOTIOS) GT 10.) CHISO=1.E10
FREE=NFPE
FREE=NFPE
FREENFPE
FREENFPE
FREENFPE
FREENFPE
FREENFPE
FREENFPE
FREENFPE
FREENFPE INTERCHANGE ROWS AND COULDMNS TO PUT AMAX IN ARPAHIK+K) FIND LAPGEST ELEMENT APPAY (1, J) IN WEST OF MATRIX 10 70 1=1.40PDEP
11 (1-K) 5-3.70+63
APPAY(1-K) 5-3.70+63
APPAY(1-K) 5-3.70+63
APPAY(1-K) 5-3.70+63
CONTINUE
10 60 1=1.40PDEP
10 60 1=1.40PDEP
11 (1-K) 74.40-74
12 (1-K) 74.40-74
13 (1-K) 74.40-74
15 (1-K) 74.40-74
16 (1-K) 74.40-74
17 (1-K) 74.40-74
17 (1-K) 74.40-74
18 (1-K) 74.40 AMMAX=0 10 30 1 = K.NORDEP 10 30 3 = MANNORDEP IF (DAMAY) = DAMS (AMEAY([.J))) 24.24.30 IK (K) = I IK (K) = J CONTINUE ACCMILLATE FLEMENTS OF INVERSE MATRIX SUBPOUTINE MATINV (ARMAY,NOWDEW,DET)
DOUBLE PRECISION ARRAY,AMA, SAVE
DIMENSION ARRAY(10,10),1K(10),JK(10)
DET=1,000 DER MATRIX IF (AMAX) 41.32.41

GF = 0.

I = 1K (N)

I = 1K (N)

I = 1K (N)

I = 0.

SAVE = ARDAY (K. J)

APPAY (K. J) RESTORE OPPERING OF 00 130 1=1-MGRDER K=NORDED-L+1 J=IK(K) IF(J-K)111+111+105 230 90 25 21 23 7 43 50 53

PURDUF /LARS 3031

FORTPAN A

FILE: TPICTS

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## REFERENCES

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